

AMENDMENTS TO THE CLAIMS

Claims 1-4 (Canceled)

Claim 5 (Currently Amended): An acceleration sensor comprising:

a mounting board having a top surface which includes a first region and a second region, wherein a level of the first region of the top surface is substantially the same as a level of the second region of the of the top surface;

a stopper attached on the first region of the top surface so that the stopper is projected from the top surface; and

a sensor chip which has a top surface and a bottom surface, attached on the second region of the top surface of the mounting board, the sensor chip including a weight having a top surface which is arranged in the top surface of the sensor chip and a bottom surface which faces to the top surface of the mounting board, a frame which has a top surface which is arranged in the top surface of the sensor chip and a bottom surface which is arranged in the bottom surface of the sensor chip, and a beam which connects the weight to the frame, wherein the bottom surface of the weight faces to the stopper, and wherein the bottom surface of the frame is attached on the second region of the mounting board,

wherein a distance between the top surface of the sensor chip and the bottom surface of the weight is shorter than a distance between the top surface of the sensor chip and the bottom surface of the frame.

Claim 6 (Previously presented): The acceleration sensor of claim 5, wherein the sensor chip is bonded to the top surface of the mounting board by a bonding resin.

Claim 7 (Previously presented): The acceleration sensor of claim 5, wherein the sensor chip does not cover an entire top surface of the mounting board.

Claims 8-9 (Canceled)

Claim 10 (New): The acceleration sensor of claim 5, wherein the stopper is a unitary and integral part by itself that is disposed on the mounting board.